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Application No. 10/679,441  
Amendment dated January 5, 2007  
Reply to Office Action of October 5, 2006

Docket No.: 3722-0163P

**REMARKS**

Applicant appreciates the Examiner's thorough consideration provided the present application. Claims 1-24 are now present in the application. Claims 15, 22 and 23 have been amended and claims 20, 21 and 24 have been deleted. Claims 1, 15, 22 and 23 are independent. Reconsideration of this application, as amended, is respectfully requested.

**Allowable Subject Matter**

Claims 1-14 are allowed.

Claims 22 and 23 are rewritten in independent form including all of the limitations of the base claim and any intervening claims. Therefore, claims 22 and 23 are also allowable.

**Claim Rejections Under 35 U.S.C. §§ 102**

Claims 15 and 24 are rejected under 35 U.S.C. § 102(e) as being anticipated by Hayashi, U.S. Patent 7,099,246. This rejection is respectfully traversed.

Claim 15 is amended to add the limitations of

"detecting an amplitude of a first kind of reference signal filtered and outputting a first detecting signal;

detecting a level of a second kind of reference signal and outputting a second detecting signal;

detecting a revolution of a third kind of reference signal and outputting a third detecting signal; and

enabling the shock signal when the first, the second and the third detecting signals are simultaneously enabled, otherwise disabling the shock signal;".

These limitations are included in allowable claim 1. Therefore, claim 15 are also allowable. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §§ 102 are respectfully requested.

Claims 20 and 21 are rejected under 35 U.S.C. § 102(b) as being anticipated by Teshirogi et al. U.S. Patent 5,835,463. This rejection is respectfully traversed.

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Because claims 20 and 21 are depending upon an allowable base claim, claim 15, these claims are also allowable. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §§ 102 are respectfully requested.

### Claim Rejections Under 35 U.S.C. §§ 103

Claims 16-19 are rejected under 35 U.S.C. §103(a) as being anticipated over Hayashi, in view of Tsutsui U.S. Patent 5,699,333. This rejection is respectfully traversed.

Because claims 16-19 are depending upon an allowable base claim, claim 15, these claims are also allowable. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §§ 102 are respectfully requested.

### CONCLUSION

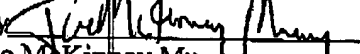
It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact Joe McKinney Muncy, Registration No. 32,334 at (703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Dated: January 5, 2007

Respectfully submitted,

By   
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